



(REFERENCE COPY - Not for submission)

FCC Form 399: Incentive Auction Relocation Reimbursement Fund System

File Number: **0000027824** | FRN: **0003482189** | Facility ID: **9628**
Repack Channel: **31 (UHF)** | Entity: **Broadcaster** | Filing Status: **Submitted**
Date Submitted: **11/22/2017**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
CBS BROADCASTING INC. Doing Business As: CBS BROADCASTING INC.	Edwin L Nass 1725 DESALES ST NW SUITE 501 WASHINGTON, DC 20036 United States	+1 (202) 457-4505	ELNASS@CBS.COM	Corporation

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
Edwin L Nass , Nass . <i>Director of Spectrum Management</i> <i>CBS</i>	Edwin L Nass 1725 DeSales Street NW Suite 501 Washington, DC 20036 United States	+1 (202) 457-4602	elnass@cbs.com

**Broadcaster
Information
and
Transition
Plan**

Question	Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	Yes
Briefly describe transition plan	Interim post-transition transmitter will be commissioned at an interim site in advance of the Phase Completion Date. Following the transition, the existing main transmitter at the primary site will be removed and a new transmitter will be installed.

Transmitters

Section	Question	Response
Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

**Auxiliary
Transmitter****Add Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Retune Existing
	Use	Auxiliary (Backup)
	Description of Use	Doomsday Auxiliary
	Ownership	Owned
	Owner	
	Site	
	Is this transmitter currently shared with another station?	No

	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	Harris
	Model	Maxiva UAX
	Year	2012
	Type	Solid state
	IOT Power Type	
	Description	
	Power capacity	
	Solid State Cooling	Air
	Solid State Power Capacity	2 kw
	Other Transmitter Type	

Retuning Transmitter Costs

Auxiliary Transmitter

Section	Question	Response
New IOT Tubes	Number of Tubes (including accessories) needed	
New Mask Filter	Power	3 kw
	Other Power	
New Exciter	Is a new exciter needed?	No
	Exciter Type	

Other Transmitter Costs

Auxiliary Transmitter

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No

	Power	
	Rigid Conduit and Wiring	No
	Size	
	Length	
	Other Electrical Service	No
	Description	
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	
	Size	
	Other Size	
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	
Channel 14 Costs	Is an RF Consulting Engineer needed?	
	Is a channel 14 Mask Filer needed?	
	Is additional field engineering time needed?	
	Number of Days	

Auxiliary Transmitter **Other Transmitter Cost Not Listed**
Information not provided.

**Auxiliary
Transmitter****Existing Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	Ownership	Owned
	Owner	
	Site	
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	Diamond
	Year	2003
	Type	Solid state
	IOT Power Type	
	Description	
	Power capacity	
	Solid State Cooling	Air
	Solid State Power Capacity	21 kw
	Other Transmitter Type	

**Auxiliary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Description of Use	Auxiliary
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	UAXTE-32
	Transmitter Type	Solid state
	IOT Power Type	
	Other	
	Power capacity	
	Solid State Cooling	Air
	Solid State Power Capacity	19 kw
	Other Transmitter Type	
	Justification for New Transmitter	Vendor will not retune existing aux transmitter. We will use this transmitter as the interim until the main can be built.

**Auxiliary
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No

	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	
	Rigid Conduit and Wiring	No
	Size	
	Length	
	Other Electrical Service	Yes
	Description	Surge Suppressor and 112.5 Kva Transformer.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	
	Size	
	Other Size	
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	
Channel 14 Costs	Is an RF Consulting Engineer needed?	
	Is a channel 14 Mask Filer needed?	
	Is additional field engineering time needed?	
	Number of Days	

Auxiliary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Electrical Sub Panel	New Sub-Panels for locations that are currently not supporting transmitter equipment. See Exhibit 5.

State Sales Tax	Auxiliary Transmitter Sales Tax.
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**Primary
Transmitter**

Existing Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	
	Ownership	Owned
	Owner	
	Site	
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	Sigma
	Year	2009
	Type	Inductive Output Tube
	IOT Power Type	Two
	Description	
	Power capacity	42 kw
	Solid State Cooling	
	Solid State Power Capacity	
	Other Transmitter Type	

**Primary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Description of Use	
	Change Type	Purchase New
	Is this a request for upgraded equipment?	Yes
	Manufacturer	
	Model	ULXTE-60
	Transmitter Type	Solid state
	IOT Power Type	
	Other	
	Power capacity	
	Solid State Cooling	Liquid
	Solid State Power Capacity	38 kw
	Other Transmitter Type	
	Justification for New Transmitter	Vendor will not re-tune the existing backup (see Exhibit 1). New IOT transmitter (see Exhibit 2) is more expensive than proposed transmitter (see Exhibit 3).

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	Yes
	Transformer (480V)	No
	Power	
	Rigid Conduit and Wiring	Yes
	Size	4 inches
	Length	100.0 feet
	Other Electrical Service	Yes
	Description	Transformer 208. Step-down transformer to 208 from 480 required for new transmitter. Larger conductors required.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Type	
	Size	
	Other Size	
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	No
	Size	
Channel 14 Costs	Is an RF Consulting Engineer needed?	
	Is a channel 14 Mask Filer needed?	
	Is additional field engineering time needed?	

Number of Days	
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**Primary
Transmitter**

Other Transmitter Cost Not Listed

Name	Description
Sales Tax	Primary Transmitter Sales Tax
Ducting and Plenum	Modifications to existing HVAC ducting and plenum are necessary for proper cooling of transmitter.
RF Accessories	Required for transmitter. See Exhibit 3, item C.

Antennas

Section	Question	Response
Antenna Related Expenses	Do you have antenna related expenses?	Yes

**Primary
Antenna****Existing Antenna Information**

Section	Question	Response
Existing Antenna Description	Type of change	Retune Existing
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top-mount stacked
	Antenna position in stack	Bottom
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	1
	Number of Panels	64
	Design power capacity in use	75.0 %

Lower Limit	470.00 MHz
Upper Limit	750.00 MHz
Other Antenna Type	N/A
ERP: (Effective Radiated Power)	540.00 kW
Manufacturer	Harris
Model	TAD-16UDA 8/64
Year	1995

Primary Antenna

Adjustment to Existing Antenna

Section	Question	Response
Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	Yes

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	

Primary Antenna

Other Antenna Cost Not Listed

Information not provided.

Auxiliary Antenna

Add Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Retune Existing
	Antenna Use	Auxiliary (Backup)
	Description of Use	Doomsday Auxiliary
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this antenna currently shared with any other stations?	Yes
	Is this antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	No
Existing Antenna Manufacturer and Type	Class	Full Power
	Mounting	Top-mount single
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Broadband Panel
	Number of Stations Supported	3
	Number of Panels	16
	Design power capacity in use	35.0 %
	Lower Limit	470.00 MHz
	Upper Limit	650.00 MHz
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	50.00 kW

	Manufacturer	Dielectric
	Model	TUA-C2-8 /16M-1
	Year	2014

Facility ID's and Call Signs of all stations with whom the antenna is shared.

Facility ID	Call Sign
35670	KTLA
47906	KNBC

Auxiliary Antenna

Adjustment to Existing Antenna

Section	Question	Response
Sweep Test of Existing Antenna	Do you need a sweep test of existing antenna?	No

Auxiliary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	Additional Module
	Number of channels supported	1
	Frequencies of channels supported	RF channel
	Frequency	N/A

Enter a list of RF channel numbers.

RF Channel Number
31

**Auxiliary
Antenna****Other Antenna Cost Not Listed**

Information not provided.

**Interim
Antenna****New Antenna Costs**

Section	Question	Response
New Antenna Description	Use	Interim
	Description of Use	N/A
	Change Type	Lease New
	Ownership	Leased
	Owner	American Tower Corporation
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	No
New Antenna Manufacturer and Type	Class	Full Power
	Mounting	Side-mount
	Antenna position in stack	Not in Stack
	Polarization	Elliptical
	Type	Broadband Slot
	Number of Stations Supported	3
	Number of Panels/Bays	18
	Lower Limit	470.00 MHz
	Upper Limit	695.00 MHz
	Design power capacity in use	33.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	590.00 kW

Manufacturer	
Model	TFU-16WB /VP S230 OS
Year	2017
Justification for New Antenna	See Narrative.

Interim Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	3
	Frequencies of channels supported	upper and lower frequency
	Frequency	470.0 MHz - 695.0 MHz
	Do you need a combiner output splitter /switcher for dual feed lines?	No
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	6 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

**Interim
Antenna**

Other Antenna Cost Not Listed

Name	Description
Install Combiner	Handling, offloading, assembly and mounting of combiner in the building. See Exhibit 5.

Transmission Line

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

Primary Transmission Line

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Utilize Existing
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	Myat and Dielectric
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	20'
	Other Segment Length	
	Number of parallel runs	1
	Length	410 feet per run

Primary Transmission Line **Other Transmission Line Expenses Not Listed**

Name	Description
Additional Rigid Line	50 feet of 6 1/8-inch for within building.

Interim Transmission Line **New Transmission Line**

Section	Question	Response
New Transmission Line Costs	Use	Interim
	Description of Use	N/A
	Change Type	Lease New
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	Broadband
	Other Segment Length	
	Number of parallel runs	1
	Length	925 feet per run
	Justification for New Transmission Line	Transmission line is required for interim facility to function.

Interim Transmission Line **Other Transmission Line Expenses Not Listed**

Information not provided.

Tower Equipment And Rigging Costs

Section	Question	Response
Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	Yes

Auxiliary Tower

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Auxiliary (Backup)
	Description of Use	Interim
	Ownership	Leased
	Is this tower consider Complex?	Located on Building
	Is this tower currently shared with any other stations?	No
	One or more FM, AM or TV radio broadcaster(s)	N/A
	Others Types of Users	N/A
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Yes
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1012836
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	34° 13' 55.0" N-
	Longitude (NAD83)	118° 04' 21.0" W-
	Overall Structure Height	972.43 feet
	Support Structure Height	899.60 feet
	Ground Elevation Above Mean Sea Level (AMSL)	5658.40 feet

Structure Type	GTOWER - Guyed Structure Used for Communication Purposes
Tower Owner	American Towers, LLC.
Date Constructed	01/01/1986

Auxiliary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for undocumented /poorly documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed

Auxiliary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	Located on Building
Helicopter Services Required	Are helicopter services required?	No

Auxiliary Tower

Other Tower Expenses Not Listed

Name	Description
Structural Analysis	Cost to conduct structural analysis for tower reinforcements. See Exhibit 5.

Tower Permit Packages	Permit drawings of tower, ground, and building.
Tower Project Management	Onsite project management for tower modification and RF installation.

Outside Professional Services Costs

Section	Question	Response
Outside Project Management Services	Do you require outside project management services?	Yes
	Number of Hours	355
	Explanation	Company lacks sufficient resources.
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
	Prepare engineering section of Form FCC Construction Permit Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare engineering section of Form FCC License to Cover Application	Yes
	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	Do you have Distributed Transmission System engineering services?	N/A
	Critical Facility	N/A
	Terrain-Shielded Facility	N/A
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	No
	For Auxiliary Facility	N/A
	For Main Facility	N/A
	Prepare and file Form FCC License to Cover Application	No
	For Auxiliary Facility	N/A

	For Main Facility	N/A
	Prepare request for Special Temporary Authority	No
	Quantity	N/A
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	No
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	No
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

**Outside
Professional
Services
Costs**

Other Professional Services Expenses Not Listed

Name	Description
RF System Test	Tuning the line for each frequency. See Exhibit 5.
Site Coordination Meeting	Site coordination meetings with all broadcasters, contractors and vendors involved with the site project. See Exhibit 5.

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	No
	Non-zoning permits	Yes
	BLM or NFS Coordination	Yes
	FCC Construction Permit Minor Change	No
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

**Other
Expenses**

Other Expenses Not Listed

Name	Description
Interim Site Rent	One time rental fee for repack period.

Cost Information

Transmitters

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter ULXTE-60	\$1,648,622.24	\$1,335,127.93		\$408,724.98	
Sales Tax	<i>\$100,994.25</i>	\$100,994.25	State Sales Tax. Please See Exhibit 3, Page 1.	\$0.00	N/A
RF Accessories	<i>\$54,194.37</i>	\$54,194.37	Coaxial Switch, Coaxial Switch Controller. Required for transmitter. See Exhibit 3, Item C.	\$0.00	N/A
Switchgear - industrial 800 amp	\$37,150.00	\$97,853.00	Various electrical wiring changes and additions required at main transmitter site. See Exhibit 7.	N/A	N/A
4" Rigid Conduit and Wiring (Cost per foot)	\$9,800.00	\$9,600.00	N/A	N/A	N/A

Other Electrical Service: Transformer 208. Step-down transformer to 208 from 480 required for new transmitter. Larger conductors required.	<i>\$9,983.62</i>	\$9,983.62	See Exhibit 3, Item D	\$0.00	N/A
Ducting and Plenum	<i>\$2,500.00</i>	\$2,500.00	After remove and replacing transmitters, heat distribution in the transmitter room will change. No additional HVAC is needed but the location of things that need to be cooled will change.	N/A	N/A
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	\$1,434,000.00	\$1,060,002.69	See Exhibit 3, items A, B, and E.	\$408,724.98	N/A
Auxiliary Transmitter Maxiva UAX	\$106,445.00	\$11,001.95		\$0.00	
3 kW mask filter	\$4,045.00	\$0.00	Re-tuning existing mask filter.	N/A	N/A

UHF and VHF - minor banding issues	\$102,400.00	\$11,001.95	Retune Mask Filter - See Exhibit 6	N/A	N/A
Auxiliary Transmitter UAXTE-32	\$617,128.03	\$617,128.03		\$204,709.34	
State Sales Tax	<i>\$53,298.00</i>	\$53,298.00	State Sales Tax. Please see Exhibit 4, Page 1.	\$0.00	N/A
UHF - Air Cooled Solid State Transmitter 19 kW	<i>\$556,521.00</i>	\$556,521.00	Transmitter, mask filter, and installation /proof. required for operation of interim site. Comparable to Widelity Cost Catalog pricing for 20 kW transmitter. See Exhibit 4, Items A, B, and D.	\$204,709.34	N/A
Other Electrical Service: Surge Suppressor and 112.5 Kva Transformer.	<i>\$4,309.03</i>	\$4,309.03	Surge suppressor and transformer required for proper operation of transmitter. See Exhibit 4.	\$0.00	N/A

Electrical Sub Panel	<i>\$3,000.00</i>	\$3,000.00	New Sub-Panel for broadcast transmitter equipment. Required for transmitter to operate. Please see Exhibit 5.	N/A	N/A
Sub-total	\$2,372,195.27	\$1,963,257.91	N/A	\$613,434.32	N/A
Total for all systems	\$4,225,231.27	\$2,731,878.91	N/A	\$613,434.32	N/A

Components

Actual Information	
Description	File Name
Sales Tax	Information not provided.
RF Accessories	Information not provided.
Switchgear - industrial 800 amp	Information not provided.
4" Rigid Conduit and Wiring (Cost per foot)	Information not provided.
Other Electrical Service: Transformer 208. Step-down transformer to 208 from 480 required for new transmitter. Larger conductors required.	Information not provided.
Ducting and Plenum	Information not provided.
UHF - Liquid Cooled Solid State Transmitter 35 - 50 kW	<p>Component Description: Approximately 1/3 Down Payment.</p> <p>Amount: \$408,724.98</p>
3 kW mask filter	Information not provided.

UHF and VHF - minor banding issues	Information not provided.
State Sales Tax	Information not provided.
UHF - Air Cooled Solid State Transmitter 19 kW	<div> <div> Component Description: Amount: </div> <div> Approximately 1/3 Down Payment \$204,709.34 </div> </div>
Other Electrical Service: Surge Suppressor and 112.5 Kva Transformer.	Information not provided.
Electrical Sub Panel	Information not provided.

Cost Information

Antennas

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TFU-16WB /VP S230 OS	\$238,600.00	\$211,800.00		\$0.00	
Install Combiner	<i>\$12,500.00</i>	\$12,500.00	Handling, offloading, assembly and mounting of combiner in the building. See Exhibit 5.	N/A	N/A
Side mount brackets for high power antennas (if not included in antenna base cost)	\$22,550.00	\$22,000.00	N/A	N/A	N/A
Elbow complex, broadband, at antenna input, per 6 1/8. feedline (if needed)	\$13,300.00	\$5,100.00	Elbow complex for 6 1/8-Inch Feedline. See Exhibit 5.	N/A	N/A

New combiner, cost per channel (without antenna)	\$80,000.00	\$60,000.00	Single chain of 3 constant impedance waveguide modules and /or single chain of 3 directional filter modules per Dielectric layout. Combiner will need to be used for 3 broadcasters before repack phase 2 and then reconfigured after. See Exhibit 5.	N/A	N/A
Sweep test of existing antenna	\$6,550.00	\$8,500.00	System Test for each line. Two inputs on antenna. See Exhibit 5.	N/A	N/A
UHF - High Power, Side Mount, basic slot antenna, 18 bay,, 590 kW input, elliptically or circularly polarized	<i>\$103,700.00</i>	\$103,700.00	Dielectric TFU-16WB /VP S230 OS (Two 8-Bay Sections) See Exhibit 5.	N/A	N/A
Primary Antenna TAD-16UDA 8/64	\$247,050.00	\$6,400.00		\$0.00	

Sweep test of existing antenna	\$6,550.00	\$6,400.00	N/A	N/A	N/A
UHF - High Power Top Mount (200-1000 kW), One station antenna, horizontally polarized	\$240,500.00	\$0.00	Re-tuning existing antenna.	N/A	N/A
Auxiliary Antenna TUA-C2-8 /16M-1	\$86,550.00	\$46,400.00		\$0.00	
Adding a module to existing combiner (without antenna)	\$80,000.00	\$40,000.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,550.00	\$6,400.00	N/A	N/A	N/A
UHF - High Power Top Mount Three Station broadband panel antenna horizontally polarized	<i>\$0.00</i>	\$0.00	Retuning existing antenna.	N/A	N/A
Sub-total	\$572,200.00	\$264,600.00	N/A	\$0.00	N/A
Total for all systems	\$4,225,231.27	\$2,731,878.91	N/A	\$613,434.32	N/A

Components

Information not provided.

Cost Information

Transmission Line

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$209,050.00	\$133,663.00		\$0.00	
Rigid Transmission Line - copper, 6 1/8" broadband	\$209,050.00	\$133,663.00	See Exhibit 5.	N/A	N/A
Primary Transmission Line	\$9,600.00	\$9,600.00		\$0.00	
Additional Rigid Line	<i>\$9,600.00</i>	\$9,600.00	Required for installation of new post-transition transmitter. (Widely Cost Catalog pricing shown.)	N/A	N/A
Sub-total	\$218,650.00	\$143,263.00	N/A	\$0.00	N/A
Total for all systems	\$4,225,231.27	\$2,731,878.91	N/A	\$613,434.32	N/A

Components

Information not provided.

Cost
Information

Tower Equipment and Rigging Costs

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Auxiliary Tower GTOWER	\$864,238.00	\$151,563.00		\$0.00	
Tower Permit Packages	<i>\$9,400.00</i>	\$9,400.00	Generation of tower, building, and ground construction drawings required for local permits. See Exhibit 5.	N/A	N/A
Tower Project Management	<i>\$5,000.00</i>	\$5,000.00	Due to the complexity of the site and its access, it is estimated that onsite project management for tower modification and RF installation will be a duration of 40 hours. See Exhibit 5.	N/A	N/A

Major tower reinforcement /modifications	\$409,500.00	\$60,375.00	It is expected that the additional loads imposed on the tower by the new appurtenances required for the repack project will cause the tower to fail. The structural failure is expected to be in the major category. See Exhibit 5.	N/A	N/A
Structural Analysis	<i>\$5,238.00</i>	\$5,238.00	Cost to conduct structural analysis for tower reinforcements. See Exhibit 5.	N/A	N/A
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$409,500.00	\$61,250.00	Tower rigging, modifications per the failing structural, removal of existing top antenna, tower top section, and lines. Installation of 15' of new tower top section and plate, installation of a side mounted antenna and line. See Exhibit 5.	N/A	N/A

Tower mapping for an undocumented /poorly documented tower and preparation of documentation necessary for tower load study	\$25,600.00	\$10,300.00	Structural tower mapping to provide data to the structural engineer in order to generate the correct structural output. See Exhibit 5.	N/A	N/A
Sub-total	\$864,238.00	\$151,563.00	N/A	\$0.00	N/A
Total for all systems	\$4,225,231.27	\$2,731,878.91	N/A	\$613,434.32	N/A

Components

Information not provided.

Cost Information

Outside Professional Services

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$95,220.00	\$112,480.00		\$0.00	
Site Coordination Meeting	<i>\$4,250.00</i>	\$4,250.00	Site coordination meetings with all broadcasters, contractors and vendors involved with the site project. All involved parties will jointly define a site action plan and cutover approach. See Exhibit 5.	N/A	N/A
RF System Test	<i>\$12,750.00</i>	\$12,750.00	Tune the line for each frequency. See Exhibit 5.	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,095.00	\$4,000.00	N/A	N/A	N/A

Prepare request for Special Temporary Authorization	\$1,535.00	\$1,500.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,535.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,535.00	\$1,500.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,050.00	\$2,000.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,070.00	\$3,000.00	N/A	N/A	N/A

Perform engineering study for new channel assignment and antenna development	\$7,170.00	\$5,000.00	See Exhibit 5.	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,560.00	\$2,500.00	N/A	N/A	N/A
Project management of the transition	\$54,670.00	\$74,480.00	Company lacks sufficient resources. See Exhibits 5 and 7.	N/A	N/A
Sub-total	\$95,220.00	\$112,480.00	N/A	\$0.00	N/A
Total for all systems	\$4,225,231.27	\$2,731,878.91	N/A	\$613,434.32	N/A

Components

Information not provided.

Cost Information

Other Expenses

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$102,728.00	\$96,715.00		\$0.00	
Interim Site Rent	<i>\$57,600.00</i>	\$57,600.00	One time rental fee for Deer Park tower and site. Covers interim period. See Exhibit 5.	N/A	N/A
MVPD Notification of Channel Change	<i>\$1,000.00</i>	\$1,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$1,000.00</i>	\$1,000.00	N/A	N/A	N/A
Equipment Storage	<i>\$5,000.00</i>	\$5,000.00	See Exhibit 8.	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$9,600.00</i>	\$9,600.00	See Exhibit 8	N/A	N/A
BLM or NFS Coordination	<i>\$1,000.00</i>	\$1,000.00	See Exhibit 5.	N/A	N/A

Non-zoning permits	<i>\$750.00</i>	\$750.00	The cost of preparation and submission of the needed forms (excluding permit drawing package) for permits for jurisdictional permits required for electrical, building and other repack required tasks. See Exhibit 5.	N/A	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$333.00	\$325.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,250.00	\$5,250.00	See Exhibit 9.	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$15,000.00</i>	\$15,000.00	See Exhibit 8.	\$0.00	N/A
Sub-total	\$102,728.00	\$96,715.00	N/A	\$0.00	N/A
Total for all systems	\$4,225,231.27	\$2,731,878.91	N/A	\$613,434.32	N/A

Components

Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$4,225,231.27	\$2,731,878.91	\$613,434.32

Construction Status	Question	Response
	Is construction complete?	No

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 	

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

<p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>Andrew J. Siegel <i>Assistant Secretary</i></p> <p>11/22/2017</p>

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. The above-named entity acknowledges that all certifications and attached documentation are considered material. 2. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 	

3. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
4. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
5. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.
6. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.
7. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.

I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.

Andrew J. Siegel
Assistant Secretary

11/22/2017

Attachments